Public Works (1913) Department.

8 MAR 1913

G.O. No. $\frac{124}{125}$ I

DATED 24-2-1913.

The Notes
in this G.O. have been printed.

[Despatch Abstract.]

Tiruvanai Regulator, Periyar System. Approving an estimate of Rs 70971 inclusive of establishment charges for certain improvements to the ——— and ordering that a letter be sent to the Government of India requesting early sanction to the estimate

Enr.

Indexed.

[P. W. 9. / 2,000—2-10-12.]

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Government of Madras.

PUBLIC WORKS DEPARTMENT.

IRRIGATION.
ACCOUNT.

Recd.	1913.	*Enclosures*	
Regd.		*Spare copies*	

G.O. No. 124 I., 24th February 1913.

Peranai regulator, Periyar system

Approving an estimate of Rs. 70,971 inclusive of establishment charges for certain improvements to the — and ordering that a letter be sent to the Government of India requesting early sanction to the estimate.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

I

G.O. No. 266 I., dated 22nd June 1909.

II

G.O. No. 387 I., dated 21st September 1909.

III

Letter—from S. B. MURRAY, Esq., Superintending Engineer, VI Circle.
To—the Chief Engineer for Irrigation.
Dated—Trichinopoly, the 27th November 1912.
No.—1579-C.E./664-N.

With reference to your Memorandum R.C. No. 1292/09, dated 12th January 1912, and in continuation of this office No. 1542-C.E., dated 20th November 1912, I have the honour to forward herewith for your approval and sanction of Government an estimate amounting to Rs. 57,000 for improvements to the Peranai Regulator, at the head of Periyar main canal, in the Madura district.

2. The proposed improvements consist in—

(i) Raising the platform by 4′–0″, or to the total height of 18′–0″,
(ii) altering the gearing and the roller arrangements, and
(iii) shifting the bridge downstream for a distance of 1′–3″.

3. The necessity for the proposals referred to above, and shown on plan M. Nos. 135-B, 135-C, 135-D, 135-E of 1912, is explained in the report attached to the estimate. The estimate for the iron articles has been prepared in consultation with the General Superintendent, Public Works Workshops.

4. Provision is made in the estimate for renewing 70 per cent. of the wood work of the bridge, and the Executive Engineer has been asked to report the actual or approximate value of the wood work proposed to be replaced, as the amount will have to be written back from the Capital to the Revenue Account of the Periyar System, with reference to Public Works Code, paragraph 1921.

5. The work will be completed before the end of 31st March 1914.

6. The rates quoted are reasonable, and the estimate is recommended for early sanction.

ENCLOSURE.

Report to accompany the estimate for raising the platform and altering the gearing and roller arrangements and shifting the bridge of Peranai regulator.

	RS.
Amount of estimate	57,000

The shutters of the regulator cannot, as at present fixed, be lifted clear of the water when the Vaigai river is in heavy flood, and the gearing and roller arrangements are very clumsy and difficult to work. The road bridge behind the shutters is so close to them that the upstream girder of the bridge would prevent the shutters being lifted above a certain height even if the platform were high enough.

All these defects have been pointed out to the Chief Engineer for Irrigation, and in his Memorandum R.O.C. No. 1292/09, dated 8/12th January 1912, he directed the preparation of an estimate, in consultation with the General Superintendent, Public Works Workshops, to correct these faults.

The accompanying estimate makes provision for the work required.

2. The road bridge will be shifted 1′–3″ further downstream. The piers are sufficiently long to allow of this being done without any trouble, but the abutments are only slightly wider than the bridge itself, so that the movements of 1–3″ will carry the down stream girders a little beyond the line of abutment. To remedy this the downstream wing of each abutment will be corbelled out, and a cross girder laid along the abutment to carry the ends of the main girders. Details of the proposal are shown on plan M. No. 135-B /12.

S. B. Murray,
Superintending Engineer, VI Circle.

IV

Letter—from S. B. Murray, Esq., Superintending Engineer, VI Circle.
To—the Chief Engineer for Irrigation.
Dated—Trichinopoly, the 14th December 1912.
No.—1653-C.E./664-N.

With reference to paragraph 4 of this office No. 1579-C.E., dated 27th November 1912, I have the honour to inform you that the approximate value of the wood work proposed to be replaced is reported to be Rs. 3,000.

V

Note by the Chief Engineer for Irrigation R.O.C. No. 1292/09, dated 4th February 1913.

As the gearings of the lift shutters of the Peranai regulator, Periyar system, were reported to be working unsatisfactorily, certain improvements were carried out in 1908-09 to the shutters of the two shore spans on the right bank of the river. As the improvements made to the two spans were found satisfactory, an estimate amounting to Rs. 17,220 including establishment charges for altering the existing gearing of the remaining 8 spans, was sanctioned by the Government of India in their letter No. 934-1, dated 30th August 1909, printed in G.O. No. 387 I., dated 21st September 1909. After personally discussing the question with the General Superintendent, Public Works Workshops, the Chief Engineer for Irrigation requested the Superintending Engineer, VI Circle, not to carry out the work sanctioned in the Government Order quoted above, as the Superintendent, Public Works Workshops, reported that the present gearing was very defective, and promised to submit revised proposals for new gearing. The Executive Engineer, Madura division, also reported that the biggest flood in 1910 rose to 13 feet on the cill of the regulator, whereas the maximum lift of the shutters is only 13½ feet. He also stated that the level recorded for this flood at Chittani, 3 miles below, was 2½ feet lower than the M.F.L. of 1884 at that place. The Superintending Engineer therefore was requested to submit an estimate in consultation with the General Superintendent, Public Works Workshops, for raising the platform of the Peranai regulator throughout by 4 feet and for altering the gearing of all the shutters.

2. With his letter No 1579-C.E., dated 27th November 1912, the Superintending Engineer, VI Circle, accordingly submits an estimate amounting to Rs. 57,000 for improvements to Peranai regulator. The estimate provides for—

	RS.
(1) Raising the platform by 4 feet	5,700
(2) Altering the roller and gearing arrangements	43,210
(3) Shifting the bridge 1¼ feet further downstream	3,000
(4) Contingencies and petty supervision	5,090
Total ...	57,000

3. It is proposed to shift the road bridge 1¼ feet further back and to raise the platform by 4 feet. It is also proposed to alter the roller and gearing arrangements by (i) substituting free rollers for the fixed rollers, (ii) moving the gearing to the centre of the span, and (iii) by substituting bicycle pattern chains for the present admiralty pattern.

4. The estimate which has been increased to Rs. 57,700 in this office by providing for certain items of masonry omitted, is recommended for approval and submission to the Government of India for sanction.

5. The Superintending Engineer should report the cost of the existing gearing arrangements (*vide* concluding portion of paragraph 3 above), proposed to be replaced so that it may be written back from the capital to the revenue account of the Periyar system.

6. The sum of Rs. 3,000 referred to in Superintending Engineer's letter No. 1653-C.E., dated 14th December 1912, as being the approximate value of the wood work proposed to be replaced, will be written back by the Accountant-General from the Capital to the Revenue Account, as soon as Government of India's sanction to the estimate is received.

H. E. CLERK,
Chief Engineer for Irrigation.

To the Joint Secretary to Government, Public Works Department,
Irrigation Branch.

Order—No. 124 I., dated 24th February 1913.

The following estimate is approved in supersession of the estimate sanctioned in G.O. No. 387 I., dated 21st September 1909 :—

Imperial.
Irrigation.
Capital expenditure not charged to Revenue.
49. Irrigation.
Periyar system.
I. Works.
1. Headworks.
C. Works.
Unremunerative work.

Raising the platform, altering the gearing and rollers, and shifting the bridge of the Peranai regulator.

	RS.
Estimate—	
I. Works	57,700
II. Establishment	13,271
Total ...	70,971

2. The date of completion of the work may be fixed as the 31st March 1915.

3. The attention of the Superintending Engineer, VI Circle, is drawn to paragraphs 4 and 5 of the foregoing note by the Chief Engineer for Irrigation and that of the Accountant-General to paragraph 6 thereof.

4. Ordered that the following letter be sent :—

[Here enter letter No. 125 I., dated 24th February 1913.]

(True Extract.)

Under Secretary to Government, P.W.D.,
Irrigation.

To the Chief Engineer for Irrigation.
,, Superintending Engineer, VI Circle.
,, Accountant-General, Madras.
,, Financial Department.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

No. 125 I.

Irrigation.
Account.

LETTER—from

THE HON'BLE MR. H. E. CLERK,
Joint Secretary to Government of Madras,
Public Works Department
(Irrigation Branch).

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

SIR,

I am directed to forward herewith a copy of the Proceedings of this Government No. 124 I., dated 24th February 1913, approving an estimate of Rs. 70,971 inclusive of establishment charges for certain improvements to the Peranai regulator, Periyar system, and to request that, in the circumstances explained in the Chief Engineer's note embodied in the above proceedings, the sanction of the Government of India to the estimate be obtained and communicated at an early date.

2. The estimate now submitted supersedes the one sanctioned by the Government of India in their letter No. 934 I., dated 30th August 1909.

I have the honour to be,
Sir,
Your most obedient servant,

H. E. CLERK,
Joint Secy. to Govt., P.W.D.
(Irrigation Branch).

MADRAS,
24th February 1913.

PUBLIC WORKS DEPARTMENT
(IRRIGATION BRANCH).

NOTES CONNECTED WITH G.O. No. 124 I., DATED 24TH FEBRUARY 1913.

[SUBJECT.—*Improvements to the Peranai Regulator, Madura district.*]

Note by the Chief Engineer for Irrigation, dated 4th February 1913, *R.O.C. No.* 1292/09.

Under Secretary—
Joint Secretary—

The Chief Engineer for Irrigation recommends for approval and submission to the Government of India for sanction an estimate amounting to Rs. 70,971 inclusive of establishment charges for certain improvements to the Peranai Regulator, Periyar system. The history of the case is fully explained in the note by the Chief Engineer for Irrigation quoted above. A draft order and a draft letter to India are submitted which may, if approved, be forwarded to Financial for acceptance before circulation to the Honourable Member.

T.S.R.—24-1-13.

M.S.V.—24-1-13.

F. E. MORGAN—3-2-13.
H. E. CLERK—4-2-13.

To the Financial Department u.o.

FINANCIAL DEPARTMENT.

The draft order and letter may, it is submitted, be accepted.

V.G.K.—10-2-13.

C. REILLY—10-2-13.
A. G. CARDEW—11-2-13.

To the Public Works Department (Irrigation) u.o.

PUBLIC WORKS DEPARTMENT
(IRRIGATION BRANCH).

Under Secretary—

The draft order may now be circulated to the Honourable Member.

V.K.—12-2-13.
S.A.V.—12-2-13.
M.S.V.—12-2-13.

Honourable Member—

F.E.M.—13-2-13.
H. A. S[TUART]—13-2-13

Under Secretary—

The draft order may issue.

M.S.V.—15-2-13.
S.G.—15-2-13.

Issue.

F.E.M.—15-2-13

[Issued as G.O. No. 124 I., dated 24th February 1913.]

P.p1-3 c.f. { From the Supg. Engr VI circle No 1579 C.E. / 664 M. d 27.11.12
P.4 c.f. { From .. No 1653 C.E. / 664 m d 16.12.12
Print in full.

5

Note by the Chief Engineer for Irrigation. R.O.C. No 1292/09 dated 4.2.1913.

5P

As the gearings of the lift - shutters of the Peranai regulator, Periyar ~~project~~ system, were reported to be working/unsatisfactorily, certain improvements were carried out in 1908-09 to the shutters of the two shore -- spans on the right bank of the river. As the improvements made to the 2 spans were found satisfactory, an estimate amounting to Rs 17,220 including establishment charges for altering the existing gearing of the remaining 8 spans, was sanctioned by the Govt. of India in their letter No.934-1, dated 30-8-09 printed in G.O.No.387-1, dated 21-9-09. After personally discussing the ~~portion~~ question with the General Supdt: Public Works Workshops, the Chief Engr. for Irrgn. requested the S.E. VI Circle not to carry out the work sanctioned in the G.O. quoted above, as the Supdt. P.W.Workshops reported that the present gearing was very defective, and promised to submit revised proposals for new gearing. The Ex.Engr. Madura Dn. also ~~represented~~ reported that the biggest flood in 1910 rose to 13 ft. on the cill of the regulator, whereas the maximum lift ~~for~~ of the shutters is only 13½ ft. He also stated that the level recorded for

Flag Q.

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this flood at Chittani 3 miles below was 2½ ft. lower than the M.F.L. of 1884 at that place. The S.E. therefore was ~~in this office R.O.C.No.1293 of 09 dated 12-1-1912~~ requested to submit an estimate in consultation with the General Supdt. P.W.Workshops for raising the platform of the Peranai regulator throughout by 4 ft. and for altering the gearing of all the shutters.

Pp1-3 c.f.

2. With his letter No.1579 C.E, d/ 27-11-1912, the S.E. VI Circle accordingly submits an estimate amounting to ₨57,000 for improvements to Peranai regulator. The estimate provides for

	Rs
(1) Raising the platform by 4 ft.	5700
(2) Altering the roller and gearing arrangements	43210
(3) Shifting the bridge 1¼ ft. further downstream	3000
(4) Contingencies & petty supervision	5090
Total	Rs 57000

3. It is ~~therefore~~ proposed to shift the road bridge 1¼ ft. further back and to raise the platform by 4 ft. It is also proposed to alter the roller and gearing arrangements by (i) substituting free rollers for the fixed rollers (ii) moving the gearing to the centre of the span and (iii) by substituting bicycle pattern chains for the present admiralty pattern.

4. The estimate which has been increased to ₨57,700 in this office by providing

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for certain items of masonry omitted is recommended for approval and submission to the Govt. of India for sanction.

5. The S.E. should report the cost of the existing gearing arrangements (vide concluding portion of para 3 above) proposed to be replaced, so that it may be written back from the capital to the revenue account of the Periyar system.

6. The sum of Rs 3,000 referred to in S.E's letter No.1653 C.E d/14-12-12 as being the approximate value of the wood work proposed to be replaced, will be written back by the Acctt: General from the Capital to the Revenue Account, as soon as Govt. of India's sanction to the estimate is received.

P4C.4

[signature] 3/2/13

[signature] 3/2/13

To the Joint Secretary to Govt.
with the c.f.

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PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

Tabling Abstract.

Peranai Regulator, Periyar System

Approving an estimate of Rs 70,971 inclusive of establt. charges for certain improvements to the —— and ordering that a letter be sent to the G of I requesting early sanction to the estimate.

Cross References.

Regulator. — Madura Dt.

Read the following :—

~~GO No 266 I dy 22. 6. 1909.~~ flag 15

GO no 387 I d. 21. 9. 09

Note by the Chief Engr: for Irrign No C No 1292/09 dy 4-2-13. flag 68

C.F.

Circulated to

Print Notes

sanctioned in GO no 387 I d. 21. 9. 09

flag Q

ORDER—No. 1243, dated 24. 2. 13

~~Res.~~

The following estimate in supersession of the estimate ~~appd. in GO no 266 I 22. 6. 09~~ is approved:

Imperial.

Irrigation.

Capital Expenditure not charged to Revenue.

49. Irrigation.

Periyar System

2/ I - Works.

1. Head works.

9B C. Works.

Unremunerative Work.

Raising the platform, ~~and~~ altering the gearing and rollers ~~arrange-ments~~, and shifting the bridge of the Koanai Regulator.

Estimate { I Works. 57.700
II Establt 13.271
70.971

2. The date of completion of the work may be fixed as the 31st March 1915.

3. The attention of the S E, VI Circle, is drawn to paras 4 and 5 of the foregoing note by the E. I and ~~that of the A. G to para~~

Paras 6-7 CF

3

3/

Page 7 CF

To the Chief Engr: for Irrigr
" S.E, 6th Circle, MS
" A.G Madras. D 25/1/13
" Financial Dept.

DESPATCHED 31 MAR 1913

Note for W-Offce

The letters to ~~Ind~~ a should issue in MS in ~~advance~~ with (1) a copy of the Proceeding containing copies of E.D's note & Report & (2) Plans & Estimates.

[initials]
24.1.13

para 6 thereof.

4 Ordered that the following letter be sent:— 108

To 125 I dy 24.2.13

The Secy to the G. of I
P.W.D

Sir,

I am directed to forward herewith a copy of the Proceeding of this Govt No 124 I dy 24.2.13 approving an estimate of Rs 70,971 inclusive of establt. charges for certain improvements to the Peranai Regulator, Koryar System, and to request that in the circumstances explained in the Chief Engr's note embodied in the

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of above proceedings, the sanction of the G.of I. to the estimate be obtained and communicated at an early date.

2. The ~~present~~ estimate now submitted supersedes the one sanctioned by the G.of I. in their letter No 934 d/ 30-8-09.

flag Q

24.1.13

24-1-13

0/2/13

4/2/13

31/1

Document accompanying:—
1. Copy of the Proceedings referred to.
2. Plans & Estimates.

DESPATCHED
25 FEB 1913

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A.S

CM

24/2

G.O 1–12

Notes – 1–3.

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